

IN THE SPECIFICATION

Please replace the paragraph at page 33, lines 13-19, with the following rewritten paragraph:

Similarly, the high-likelihood path where the first bit is 1 is a path where path metric of the survival paths in the states 1 and 2 is smaller. Here, the path metric of this path is “likelihood where the first bit is 1”. That is, when the path metrics of the survival paths in the states 1 and 2 are $PM_i(1)$ and $PM_i(2)$, “likelihood where the first bit is 1 $[-1]$ ” becomes $\text{MIN}(PM_i(1), PM_i(2))$.

Please replace the paragraph at page 42, line 21 to page 43, line 2, with the following rewritten paragraph:

Here, $[P_i]$ P_i^0 represents the power of the received signal, and $PM_i(0)$ to $PM_i(3)$ represent path metrics of the survival paths in the states 0 to 3.